Complete Summary

GUIDELINE TITLE

Posterior vitreous detachment, retinal breaks, and lattice degeneration.

BIBLIOGRAPHIC SOURCE(S)

American Academy of Ophthalmology Retina/Vitreous Panel, Preferred Practice Patterns Committee. Posterior vitreous detachment, retinal breaks, and lattice degeneration. San Francisco (CA): American Academy of Ophthalmology (AAO); 2008. 20 p. [74 references]

GUIDELINE STATUS

This is the current release of the guideline.

This guideline updates a previous version: American Academy of Ophthalmology Retina Panel, Preferred Practice Patterns Committee. Posterior vitreous detachment, retinal breaks, and lattice degeneration. San Francisco (CA): American Academy of Ophthalmology (AAO); 2003. 17 p.

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COMPLETE SUMMARY CONTENT

SCOPE

METHODOLOGY - including Rating Scheme and Cost Analysis

RECOMMENDATIONS

EVIDENCE SUPPORTING THE RECOMMENDATIONS

BENEFITS/HARMS OF IMPLEMENTING THE GUIDELINE RECOMMENDATIONS QUALIFYING STATEMENTS

IMPLEMENTATION OF THE GUIDELINE

INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT CATEGORIES

IDENTIFYING INFORMATION AND AVAILABILITY DISCLAIMER

SCOPE

DISEASE/CONDITION(S)

Precursors to rhegmatogenous retinal detachment and the following related entities:

- Posterior vitreous detachment
- Retinal break without detachment
- Multiple retinal breaks without detachment
- Horseshoe tear without detachment
- Operculated break without detachment
- Round hole without detachment
- Retinal dialysis
- Lattice degeneration of the retina

GUIDELINE CATEGORY

Counseling Diagnosis Evaluation Management Treatment

CLINICAL SPECIALTY

Ophthalmology

INTENDED USERS

Physicians

GUIDELINE OBJECTIVE(S)

To prevent visual loss and functional impairment related to retinal detachment and to maintain quality of life by addressing the following goals:

- Identify patients at risk for rhegmatogenous retinal detachment (RRD)
- Examine patients with symptoms of acute posterior vitreous detachment (PVD) to detect and treat significant retinal breaks
- Manage patients at high risk of developing retinal detachment
- Educate high-risk patients about symptoms of posterior vitreous detachment, retinal breaks, and retinal detachments and about the need for periodic follow-up

TARGET POPULATION

- Individuals with symptoms or signs suggestive of posterior vitreous detachment, retinal breaks, vitreous hemorrhage, or retinal detachment
- Asymptomatic individuals with an increased risk for retinal detachment

INTERVENTIONS AND PRACTICES CONSIDERED

Diagnosis/Evaluation

- 1. Patient's medical, family, and ocular history
- 2. Eye examination

- Examination of the vitreous for hemorrhage, detachment, and pigmented cells
- Peripheral fundus examination with scleral depression
- 3. B-scan ultrasonography

Management/Treatment

- 1. Cryotherapy
- 2. Laser photocoagulation
- 3. Follow-up evaluations
- 4. Patient education

MAJOR OUTCOMES CONSIDERED

- Identification of patients at risk
- Incidence of rhegmatogenous retinal detachment
- Visual loss and functional impairment
- Quality of life

METHODOLOGY

METHODS USED TO COLLECT/SELECT EVIDENCE

Searches of Electronic Databases

DESCRIPTION OF METHODS USED TO COLLECT/SELECT THE EVIDENCE

In the process of revising this document, a detailed literature search of articles in the English language was conducted on the subject of posterior vitreous detachment, retinal breaks, and lattice degeneration for the years 2002 to 2007.

NUMBER OF SOURCE DOCUMENTS

Not stated

METHODS USED TO ASSESS THE QUALITY AND STRENGTH OF THE EVIDENCE

Weighting According to a Rating Scheme (Scheme Given)

RATING SCHEME FOR THE STRENGTH OF THE EVIDENCE

Ratings of Strength of Evidence

Level I includes evidence obtained from at least one properly conducted, well-designed randomized, controlled trial. It could include meta-analyses of randomized controlled trials.

Level II includes evidence obtained from the following:

- Well-designed controlled trials without randomization
- Well-designed cohort or case-control analytic studies, preferably from more than one center
- Multiple-time series with or without the intervention

Level III includes evidence obtained from one of the following:

- Descriptive studies
- Case reports
- Reports of expert committees/organization (e.g., Preferred Practice Patterns [PPP] panel consensus with external peer review)

METHODS USED TO ANALYZE THE EVIDENCE

Review of Published Meta-Analyses Systematic Review

DESCRIPTION OF THE METHODS USED TO ANALYZE THE EVIDENCE

Not stated

METHODS USED TO FORMULATE THE RECOMMENDATIONS

Expert Consensus

DESCRIPTION OF METHODS USED TO FORMULATE THE RECOMMENDATIONS

The results of a literature search on the subject of posterior vitreous detachment, retinal breaks, and lattice degeneration were reviewed by the Retina Panel and used to prepare the recommendations, which they rated in two ways. The panel first rated each recommendation according to its importance to the care process. This "importance to the care process" rating represents care that the panel thought would improve the quality of the patient's care in a meaningful way. The panel also rated each recommendation on the strength of the evidence in the available literature to support the recommendation made.

RATING SCHEME FOR THE STRENGTH OF THE RECOMMENDATIONS

Ratings of Importance to Care Process

Level A, defined as most important

Level B, defined as moderately important

Level C, defined as relevant but not critical

COST ANALYSIS

A formal cost analysis was not performed and published cost analyses were not reviewed.

METHOD OF GUIDELINE VALIDATION

Internal Peer Review

DESCRIPTION OF METHOD OF GUIDELINE VALIDATION

These guidelines were reviewed by Council and approved by the Board of Trustees of the American Academy of Ophthalmology (September 2008).

RECOMMENDATIONS

MAJOR RECOMMENDATIONS

The ratings of importance to the care process (A-C) and the ratings for strength of evidence (I-III) are defined at the end of the "Major Recommendations" field.

Diagnosis

The initial evaluation of a patient with risk factors or symptoms includes all features of the comprehensive adult medical eye evaluation (American Academy of Ophthalmology Preferred Practice Patterns Committee, 2005), with particular attention to those aspects relevant to posterior vitreous detachment (PVD), retinal breaks, and lattice degeneration.

History

A patient history should include the following elements:

- Symptoms of PVD (Boldrey, 1983; Brod et al., 1991; Tasman, 1968; Dayan et al., 1996; Byer, 1994) [A:I]
- Family history (Snead et al., 1994; Brown et al., 1995) [A:II]
- Prior eye trauma (Cooling, 1986) [A:III]
- Myopia (The Eye Disease Case-Control Study Group, 1993; Austin et al., 1990) [A:II]
- History of ocular surgery, including refractive lens exchange and cataract surgery (Javitt et al., 1992; Tielsch et al., 1996; Rowe et al., 1999; Norregaard et al., 1996; Javitt et al., 1991; Kraff & Sanders, 1990) [A:II]

Examination

The eye examination should include the following elements:

- Examination of the vitreous for hemorrhage, detachment, and pigmented cells (Boldrey, 1983; Brod et al., 1991; Tasman, 1968; Dayan et al., 1996; Byer, 1994; Boldrey, 1997; Coffee et al., 2007) [A:II]
- Peripheral fundus examination with scleral depression (Brockhurst, 1956)
 [A:III]

There are no symptoms that can reliably distinguish PVD with an associated retinal break from PVD without an associated retinal break; therefore, a peripheral

retinal examination is required (Brockhurst, 1956). [A:III] The preferred method of evaluating peripheral vitreoretinal pathology is with indirect ophthalmoscopy combined with scleral depression (Natkunarajah, Goldsmith, & Goble, 2003). [A:III]

Diagnostic Tests

If it is impossible to evaluate the peripheral retina, B-scan ultrasonography should be performed to search for retinal tears or detachment and for other causes of vitreous hemorrhage (DiBernardo, Blodi, & Byrne, 1992). [A:II]

Treatment

The table below summarizes recommendations for management.

Table: Management Options

Type of Lesion	Treatment*
Acute symptomatic horseshoe tears	Treat promptly (Shea, Davis, & Kamel, 1974; Colyear & Pischel, 1960; Robertson & Norton, 1973; Pollack & Oliver, 1981; Smiddy et al., 1991; Verdaguer & Vaisman, 1979) [A:II]
Acute symptomatic operculated tears	Treatment may not be necessary [A:III]
Traumatic retinal breaks	Usually treated [A:III]
Asymptomatic horseshoe tears	Usually can be followed without treatment [A:III]
Asymptomatic operculated tears	Treatment is rarely recommended [A:III]
Asymptomatic atrophic round holes	Treatment is rarely recommended [A:III]
Asymptomatic lattice degeneration without holes	Not treated unless PVD causes a horseshoe tear [A:III]
Asymptomatic lattice degeneration with holes	Usually does not require treatment [A:III]
Asymptomatic dialyses	No consensus on treatment and insufficient evidence to guide management
Eyes with atrophic holes, lattice degeneration, or asymptomatic horseshoe tears where the fellow eye has had a retinal detachment	No consensus on treatment and insufficient evidence to guide management

*There is insufficient evidence to recommend prophylaxis of asymptomatic retinal breaks for patients undergoing cataract surgery.

The surgeon should inform the patient of the relative risks, benefits, and alternatives to surgery (American Academy of Ophthalmology, "Pretreatment Assessment," 2006; American Academy of Ophthalmology, "An Ophthalmologist's Duties," 2006). [A:III] The surgeon is responsible for formulating a postoperative care plan and should inform the patient of these arrangements (American Academy of Ophthalmology, "Pretreatment Assessment," 2006; American Academy of Ophthalmology, "An Ophthalmologist's Duties," 2006). [A:III]

Follow-Up

The guidelines in the table below are for routine follow-up in the absence of additional symptoms. Patients with no positive findings at the initial examination should be seen at the intervals recommended in the Comprehensive Adult Medical Eye Evaluation Preferred Practice Pattern (PPP) (American Academy of Ophthalmology Preferred Practice Patterns Committee, 2005). [A:III] All patients with risk factors should be advised to contact their ophthalmologist promptly if new symptoms such as flashes, floaters, peripheral visual field loss, or decreased visual acuity develop (Javitt et al., 1992; Tielsch et al., 1996; Norregaard et al., 1996; Singh & Seemongal-Dass, 2001). [A:II]

Recommended Guidelines for Follow-Up

Type of Lesion	Follow-up Interval
Symptomatic PVD with no retinal break	Depending on symptoms, risk factors, and clinical findings, patients should be followed in 1 to 6 weeks, then 6 months to 1 year
Acute symptomatic horseshoe tears	1 to 2 weeks after treatment, then 4 to 6 weeks, then 3 to 6 months, then annually
Acute symptomatic operculated tears	2 to 4 weeks, then 1 to 3 months, then 6 to 12 months, then annually
Traumatic retinal breaks	1 to 2 weeks after treatment, then 4 to 6 weeks, then 3 to 6 months, then annually
Asymptomatic horseshoe tears	1 to 4 weeks, then 2 to 4 months, then 6 to 12 months, then annually
Asymptomatic operculated tears	2 to 4 weeks, then 1 to 3 months, then 6 to 12 months, then annually
Asymptomatic atrophic round holes	1 to 2 years

Type of Lesion	Follow-up Interval
Asymptomatic lattice degeneration without holes	Annually
Asymptomatic lattice degeneration with holes	Annually
Asymptomatic dialyses	If untreated, 1 month, then 3 months, then 6 months, then every 6 months If treated, 1 to 2 weeks after treatment, then 4 to 6 weeks, then 3 to 6 months, then annually
Eyes with atrophic holes, lattice degeneration, or asymptomatic horseshoe tears in patients in whom the fellow eye has had a retinal detachment	Every 6 to 12 months

PVD, posterior vitreous detachment

History

A patient history should identify changes in the following:

- Visual symptoms (Boldrey, 1983; Brod et al., 1991; Tasman, 1968; Dayan et al., 1996; Byer, 1994; Boldrey, 1997) [A:I]
- Interval history of eye trauma or intraocular surgery (Cooling, 1986; Tielsch et al., 1996; Tasman, 1972) [A:I]

Examination

The eye examination should emphasize the following elements:

- Measurement of visual acuity [A:III]
- Evaluation of the status of the vitreous, with attention to the presence of pigment, hemorrhage, or syneresis (Boldrey, 1983; Brod et al., 1991; Tasman, 1968; Dayan et al., 1996; Byer, 1994; Boldrey, 1997; Coffee et al., 2007) [A:II]
- Examination of the peripheral fundus with scleral depression (Brockhurst, 1956; Schepens, 1952) [A:II]
- B-scan ultrasonography if the media is opaque (DiBernardo, Blodi, & Byrne, 1992) [A:II]

Provider

It is essential that ancillary clinical personnel be familiar with the symptoms of PVD and retinal detachment so that symptomatic patients can gain prompt access to the health care system (Byer, 1994). [A:II] Patients with symptoms of possible or suspected PVD or retinal detachment and related disorders should be examined

promptly by an ophthalmologist skilled in binocular indirect ophthalmoscopy and supplementary techniques. [A:III] Patients with retinal breaks or detachments should be treated by an ophthalmologist with experience in the management of these conditions. [A:III]

Counseling/Referral

All patients at increased risk of retinal detachment should be instructed to notify their ophthalmologist promptly if they have a substantial change in symptoms, such as a significant increase in floaters, loss of visual field, or decrease in visual acuity (Javitt et al., 1992; Tielsch et al., 1996; Norregaard et al., 1996; Singh & Seemongal-Dass, 2001). [A:III] Patients who undergo refractive surgery to reduce myopia should be informed that they remain at risk of rhegmatogenous retinal detachment (RRD) despite reduction of their refractive error. [A:III]

Definitions:

Ratings of Importance to Care Process

Level A, defined as most important

Level B, defined as moderately important

Level C, defined as relevant but not critical

Ratings of Strength of Evidence

Level I includes evidence obtained from at least one properly conducted, well-designed randomized, controlled trial. It could include meta-analyses of randomized controlled trials.

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- Well-designed controlled trials without randomization
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- Descriptive studies
- Case reports
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CLINICAL ALGORITHM(S)

None provided

EVIDENCE SUPPORTING THE RECOMMENDATIONS

REFERENCES SUPPORTING THE RECOMMENDATIONS

References open in a new window

TYPE OF EVIDENCE SUPPORTING THE RECOMMENDATIONS

The type of supporting evidence is identified and graded for most recommendations (see "Major Recommendations" field).

BENEFITS/HARMS OF IMPLEMENTING THE GUIDELINE RECOMMENDATIONS

POTENTIAL BENEFITS

The early diagnosis of a retinal detachment is important because the rate of successful reattachment is higher and the visual results are better if detachment spares the macula. Successful treatment allows patients to maintain their abilities to read, work, drive, care for themselves, and enjoy a better quality of life.

POTENTIAL HARMS

Complications of Treatment

Epiretinal membrane proliferation (macular pucker) has been observed after treatment for posterior vitreous detachment, but it remains unknown whether treatment increases the risk of epiretinal membrane formation. In one long-term follow-up study, the percentage of eyes that developed macular pucker after treatment of retinal breaks was no greater than the percentage of eyes observed to have macular pucker before treatment. The method of creating a chorioretinal adhesion appears to be unrelated to the incidence of postoperative macular pucker.

QUALIFYING STATEMENTS

QUALIFYING STATEMENTS

- Preferred Practice Patterns provide guidance for the pattern of practice, not for the care of a particular individual. While they should generally meet the needs of most patients, they cannot possibly best meet the needs of all patients. Adherence to these Preferred Practice Patterns will not ensure a successful outcome in every situation. These practice patterns should not be deemed inclusive of all proper methods of care or exclusive of other methods of care reasonably directed at obtaining the best results. It may be necessary to approach different patients ' needs in different ways. The physician must make the ultimate judgment about the propriety of the care of a particular patient in light of all of the circumstances presented by that patient. The American Academy of Ophthalmology is available to assist members in resolving ethical dilemmas that arise in the course of ophthalmic practice.
- Preferred Practice Pattern guidelines are not medical standards to be adhered to in all individual situations. The Academy specifically disclaims any and all liability for injury or other damages of any kind, from negligence

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IMPLEMENTATION OF THE GUIDELINE

DESCRIPTION OF IMPLEMENTATION STRATEGY

An implementation strategy was not provided.

IMPLEMENTATION TOOLS

Personal Digital Assistant (PDA) Downloads Quick Reference Guides/Physician Guides

For information about <u>availability</u>, see the "Availability of Companion Documents" and "Patient Resources" fields below.

INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT CATEGORIES

IOM CARE NEED

Getting Better Living with Illness

IOM DOMAIN

Effectiveness Patient-centeredness

IDENTIFYING INFORMATION AND AVAILABILITY

BIBLIOGRAPHIC SOURCE(S)

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ADAPTATION

Not applicable: The guideline was not adapted from another source.

DATE RELEASED

1998 Sep (revised 2008 Sep)

GUIDELINE DEVELOPER(S)

American Academy of Ophthalmology - Medical Specialty Society

SOURCE(S) OF FUNDING

American Academy of Ophthalmology without commercial support

GUIDELINE COMMITTEE

Retina/Vitreous Panel; Preferred Practice Patterns Committee

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Members of the Retina/Vitreous Panel: Emily Y. Chew, MD, Chair, Macula Society and Retina Society Representative; William E. Benson, MD; Barbara A. Blodi, MD; H. Culver Boldt, MD; Timothy G. Murray, MD, Consultant and American Society of Retina Specialists Representative; Timothy W. Olsen, MD; Carl D. Regillo, MD, FACS; Ingrid U. Scott, MD, MPH; Leslie Hyman, PhD, Methodologist

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FINANCIAL DISCLOSURES/CONFLICTS OF INTEREST

These panel and committee members have disclosed the following financial relationships occurring from January 2007 to October 2008:

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Donald S. Fong, MD, MPH: Merck – Consultant/Advisor

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Samuel Masket, MD: Alcon Laboratories, Inc. – Consultant/Advisor, Lecture fees, Grant support; Allergan, Inc. – Lecture fees; Bausch & Lomb, Inc. – Lecture fees; Omeros Pharmaceuticals, Inc. – Consultant/Advisor; Othera Pharmaceuticals, Inc. – Consultant/Advisor; PowerVision – Consultant/Advisor; Visiogen, Inc. – Consultant/Advisor

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Christopher J. Rapuano, MD: Alcon Laboratories, Inc. – Lecture fees; Allergan, Inc. – Consultant/Advisor, Lecture fees; Inspire Pharmaceuticals – Lecture fees; Ista Pharmaceuticals – Lecture fees; Rapid Pathogen Screening – Equity/owner; Ziemer Ophthalmic Systems AG – Consultant/Advisor

Carl D. Regillo, MD, FACS: Alcon Laboratories, Inc. – Consultant/Advisor; Eyetech, Inc. – Consultant/Advisor, Grant support; Genentech, Inc. – Consultant/Advisor, Grant support; Novartis – Consultant/Advisor, Grant support; QLT Phototherapeutics, Inc. – Consultant/Advisor, Grant support

Ingrid U. Scott, MD, MPH: Eyetech, Inc. – Consultant/Advisor, Lecture fees; Genentech, Inc. – Consultant/Advisor, Lecture fees; Pfizer Ophthalmics – Consultant/Advisor, Lecture fees

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GUIDELINE AVAILABILITY

Electronic copies: Available from the <u>American Academy of Ophthalmology (AAO)</u> Web site.

Print copies: Available from American Academy of Ophthalmology, P.O. Box 7424, San Francisco, CA 94120-7424; Phone: (415) 561-8540.

AVAILABILITY OF COMPANION DOCUMENTS

The following is available:

• Summary benchmarks for preferred practice patterns. San Francisco (CA): American Academy of Ophthalmology; 2008 Nov. 22 p.

Electronic copies: Available in Portable Document Format (PDF) or Personal Digital Assistant (PDA) format from the <u>American Academy of Ophthalmology (AAO) Web</u> site.

Print copies: Available from American Academy of Ophthalmology, P.O. Box 7424, San Francisco, CA 94120-7424; Phone: (415) 561-8540.

PATIENT RESOURCES

None available

NGC STATUS

This summary was completed by ECRI on February 20, 1999. The information was verified by the guideline developer on April 23, 1999. This summary was updated again on April 30, 2004. The information was verified by the guideline developer May 20, 2004. This NGC summary was updated by ECRI Institute on April 22, 2009. The updated information was verified by the guideline developer on May 15, 2009.

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Date Modified: 6/8/2009

